

Docket No. DP-309695

DETERMINING THE COIL TEMPERATURE OF A  
MAGNETORHEOLOGICAL DAMPER OF A VEHICLE

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ABSTRACT OF THE DISCLOSURE

Method for determining a present coil temperature of a coil of a magnetorheological (MR) damper of an operating automotive vehicle, wherein the coil is powered by an output of a controller connected to the coil through a conductor. One step includes calculating a coil-plus-conductor resistance from the voltage and the current of the output of the controller when the controller applies a test current to the coil and the conductor. Another step includes calculating the present coil temperature using at least the coil-plus-conductor resistance and compensating for the resistance of the conductor.

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